

Organisms and Their Environment (Life Science Unifying Concept C)

A variety of ecosystems and communities exist on Earth. Ecosystems are dynamic interactions of organisms and their environment. Ecosystems have distinct characteristics and components that allow certain organisms to thrive. Change in one or more components can affect the entire ecosystem.

By the end of the grade band:		By the end of the grade band, students know and are able to do everything required in earlier grades and:		By the end of grade band, students know and are able to do everything required in earlier grades and:		By the end of grade band, students know and are able to do everything required in earlier grades and:		
Grades K - 2		Grades 3 - 5		Grades 6 - 8		Grades 9 - 12		
L.2.C	Students understand that living things live in different places.	L.5.C	Students understand that there is a variety of ecosystems on Earth and organisms interact within their ecosystems.	L.8.C	Students understand how living and non-living components of ecosystems interact.	L.12.C	Students understand that ecosystems display patterns of organization, change, and stability as a result of the interactions and interdependencies among the living and non-living components of the Earth.	
L.2.C.1	Students know plants and animals need certain resources for energy and growth. E/S	L.5.C.1	Students know the organization of simple food webs. E/S	L.8.C.1	Students know how matter and energy are transferred through food webs in an ecosystem. E/S			Cycles
L.2.C.2	Students know a habitat includes food, water, shelter and space. E/S	L.5.C.2	Students know organisms interact with each other and with the non-living parts of their ecosystem. E/S	L.8.C.2	Students know how to characterize organisms in any ecosystem by their functions. E/S	L.12.C.1	Students know relationships of organisms and their physical environment E/S	
L.2.C.3	Students know living things are found almost everywhere in the world. E/S	L.5.C.3	Students know changes to an environment can be beneficial or detrimental to different organisms. E/S	L.8.C.3	Students will evaluate how changes in environments can be beneficial or harmful. E/S	L.12.C.2	Students know how changes in an ecosystem can affect biodiversity and biodiversity's contribution to an ecosystem's stability. E/S	Ecosystems
		L.5.C.4	Students know all organisms, including humans, can cause changes in their environments. E/S	L.8.C.4	Students know inter-related factors affect the number and type of organisms an ecosystem can support. E/S	L.12.C.3	Students know the amount of living matter an environment can support is limited by the availability of matter, energy, and the ability of the ecosystem to recycle materials. E/S	
		L.5.C.5	Students know plants and animals have adaptations allowing them to survive in specific ecosystems. E/S			L.12.C.4	Students know the unique geologic, hydrologic, climatic, and biological characteristics of Nevada's bioregions. E/S	